MF1500 Mini Toy Crane Instruction

Content

Content

Preface

Thanks for your purchasing our product"JiWaWa"（Hereinafter referred to as" The machine"）product，Before using this product,please read this instruction be carefully。When you start using this product,We belive that you have carefully read this instruction 。We have carefully witten all content for this instruction，any printing errors or omissions or translation errors hope the majority of users understanding.When the software need to upgrade,which relates to the content will have some change,We wouldn't notice intentionally,please understand.

About some part of the picture that is in development stages of design for this instruction,maybe slightly defferent,But does not affect users.

Security warning (for the sake of safe use, be sure to read)

In this instruction manual shows the following:

● **Safty way for handling, installation, move, run, set up, maintenance of the machine**

● **To make full use of the machine's functionality provides detailed game set, play.**

● **To ensure safe use of the method as well as the players who visited around the machine。**

● **About This simple troubleshooting and repair of the machine method.**

● **About this machine operation or maintenance questions, please contact our dealer or customer service center.**

To our Inspect customers

When the machine is handling, installation, move, run, set up, maintenance, waste, make sure to read about the project in advance, to observe precautions to make instructions.

The degree of risk rating

In this machine as well as our manul refers security-related matters, loss of materials, according to   the degree of risk,   classification as follows :

⚠ **Warning :**when unable to avoid the dangerous situation may lead to the possibility of death or serious injury.

⚠ **Note:** when you fail to avoid this danger, it may cause the possibility of negative minor injuries and   make other property .

In addition, the related functions do not involve safety considerations, as follows:

About product features, protection precautions.

Security Warning （**For the purpose of safe use,please must be read**）

The definition of the technical staff

This manual for those who write for the object stores is made to ensure the smooth operation, be sure to be carried out by technical staff.

Technical staff: refers engaged in machine design, manufacture, inspection, maintenance service person game manufacturers, as well as in the industrial and high-ranking graduate, has the same electrical, electronics, mechanical engineering expertise, engage in routine maintenance and management consoles.

Please read the caution first

Caution ⚠

● In case an exception occurs, turn off immediately (OFF) power switch, stop running. After that, be sure to disconnect the power cord from the power outlet.

Running under abnormal state may cause a fire, an accident

● If the power plug is effectively inserted (inserted in the end) power outlet. Otherwise, poor contact may cause fever, fires, burns.

● Avoid other acts damage the power cord。

● Avoid the power cord, the power cord is exposed to water, as this may cause electric shock or leakage.

● :

◆ Away from the hot utensilsi

◆ No Twisted

◆ No too much bending

◆ No working

◆ No tied

Security warning （**For safety you must read** ）

◆ Don't pull（When unplugging the power cord, do not pull the power

cord, hand holding the power plug and pull it out）。

● Do not place objects on the power cord so that the power cord is clamped to avoid the machine, other products, such as walls.

● Avoid other acts damage the power cord

● Avoid the power cord, the power cord is exposed to water, as this may cause electric shock or leakage.

● Do not touch the power plug with wet hands, as this may cause electric shock.。

● The machine with large power capacity (see specifications), because of the

presence of fire, electric shock, be sure to use the appropriate power supply

specifications of indoor wiring。

● Use the AC power supply voltage requirements 220V ~ 50Hz, allowing the

supply voltage for the 210V-230V ~ 50Hz range, such as beyond the scope of

use, it may cause a fire or electric shock.。

● About consumables, repair parts (including screws), please use the designated parts.

● Do not modify the machine. Also, do not conduct not covered in this manual

operation. Such as transformation, can be dangerous unexpected happen。

● When resell the machine, be sure to attach this manual on the machine body.

Note: If non-technical personnel, do not open the base cover. 2, if touching the internal parts. May result in electric shock or injury. 3, open the door must turn off the power.

Accessories List

The machine detail accessories as follows：

No.	Accessory Name	quantity/Units	Remark
1	Cabinet	1	
2	Adversting Board	1	
3	Cabinet Door：888 Key	2	
4	Coin Box：999 Key	2	
5	Power Line	1	
6	Protective tube(10A)	1	
7	Instruction	1	

The machine installtion

●According to the specified instructions and procedures to install the machine。

●Do not place objects on the ventilation holes near the back of the machine, avoid walls, etc. to make jam. Otherwise, the internal device will tend to high temperatures, may cause fire, malfunction.

●Keep the power plug securely insert into the AC power outlet,

Otherwise, poor contact will result in heat, fire, burns.

●To ensure the ground connection. If there is no ground connection may result in leakage.。

●Try using a horizontal regulator mounting machine. Prevent the installation of instability caused by an accident or injury

●The machine for indoor use machine, do not set up outdoors as well as the following locations:

　　▲withstand direct sunlight locations

　　▲rainy, leaking location

　　▲humid locations

　　▲dusty place

　　▲locations near heating equipment

　　▲high temperature place

　　▲Cold place

　　▲due to temperature can cause condensation location

　　▲disaster prevention in impeding the safe export location, setting fire equipment location

　　▲unstable location, the location of vibration

Machine brief introduction

JiWaWa machine Features，Use the rocker move the hook to the favorite toy，Press the button in limited time，The hook will help you automobile automatic catch the toy，But,Whether can or can not catch the toy depends on your level and luck。The machine use the coin operated，Do not need people management，Very popular with many teenagers and childrens.

Claw crane toy machine：1.Very cool popular music，Fashion voice prompt。

2.Cute cartoon design3.Coin device,Convenient Custom chips

4.Fault Code,Convenient repair. 5.With Chronograph funcation,

Convenient audit

The machine back shows. Below picture
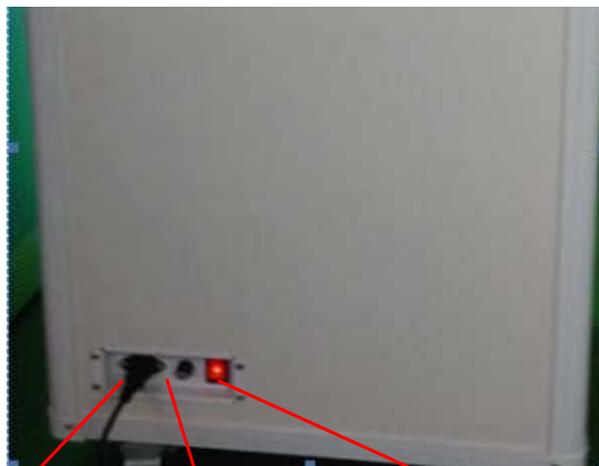
AC Power input

Request for connection
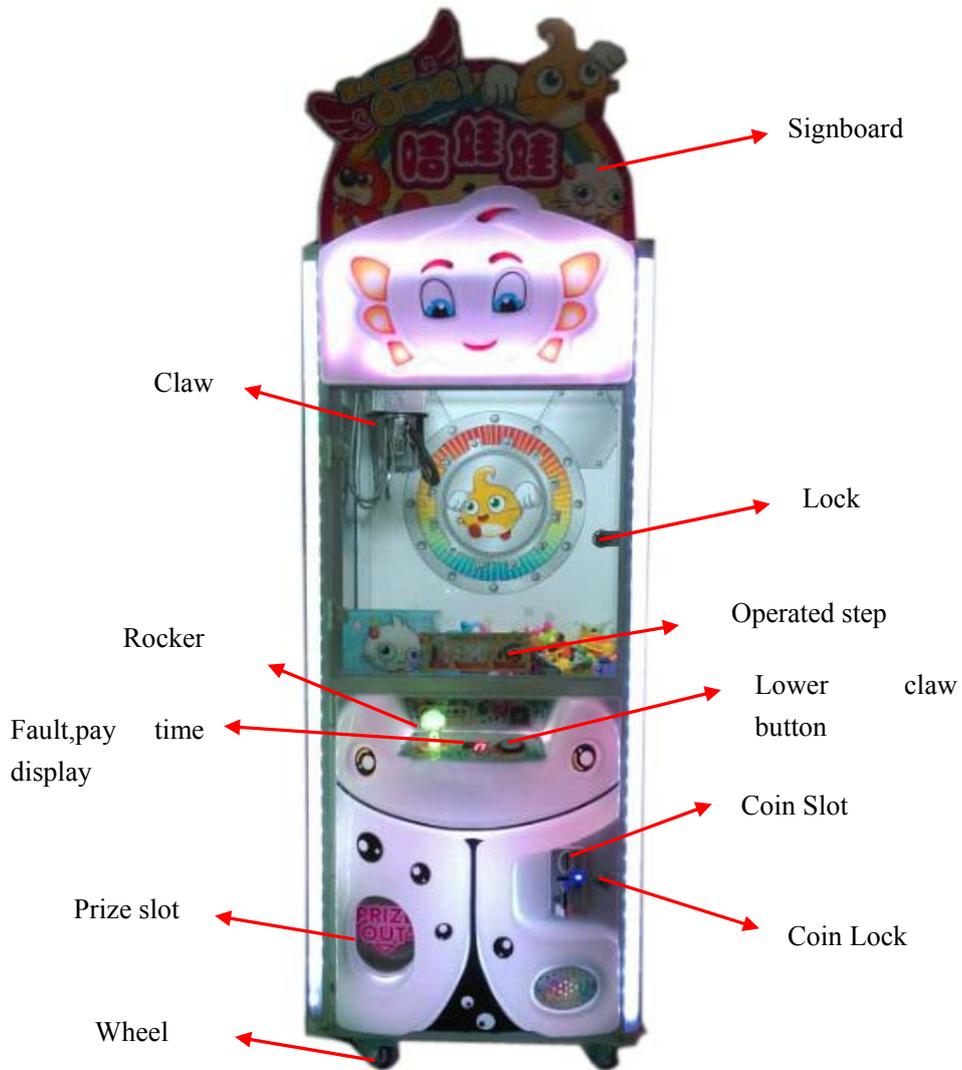
220V/50Hz power

Fuse

（T5A ~250V）

Use same Spec in change

Power button

The button turn off all power

for this machine

When an exception occurs

please turn off the button

at once. When don't use for

long time. Must keep :OFF"

status

Description of the machine

Machine Size: H(1800mm)*L(560mm)*T(500mm)

Machine Signboard Size: H(380mm)*L(530mm)

Signboard

Claw

Lock

Operated step

Rocker

Lower   claw
button

Fault,pay   time
display

Coin Slot

Prize slot

Coin Lock

Wheel

How to Play?

Operating instruction
1.   Firstly,Plug the power line,open the power switch.As show below.

2. Throw game coin then start the game,Players control machine gift.

3. When players throw coin game,if don't operated the machine,The machine will event then automatic claw the gift.

4. In limited time,The rocker control crown block four directions move.press the pew fetch,the claw also can automatic fetch.

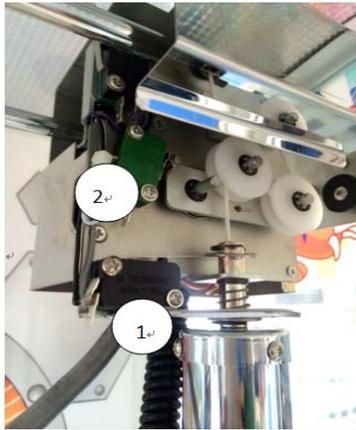5. you can get a gift when the machine successful grab.

About machine crown block

招牌

① **Front and rear motor**

② **Front final motion**

③ **Rear final motion**

When the Crown block moved to the front,the crown block will stop wouldn't move to front by tap press.Keep rear final motion stop also is tap press crown

Motor drive by claw.with two final motion control up,down and stop signal. But the up final motion is opposite.time circuit is Closed.

Left pic：① Claw up to down final motion

② claw under the place final motion

③ left in place final motion
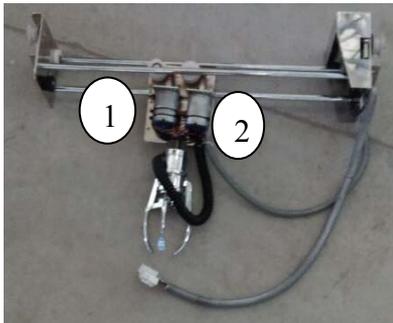
As show：① Claw up and down motor

② left and right motor

About machine light eye board

How to adjust fall light eye, please adjust first before your start game.

（1） When start game,press "coin"or "try play"botton ,Look the indicator light whether put off. If light is lit,maybe the exports have obstacles.please exclude.

（2） Please use cross screwdriver,Adjust the sensitivity knob.Must be put off the light and clockwise rotation to the bottom(the weakest of sensitivity.

（3） Please use cross screwdriver again,Adjust the sensitivity knob.contrarotae the light lit.(the strongest of sensitivity),if the light is lit.maybe the lighteye have fault or black paper haven't stick fully.

（4） Finish the adjust,please use item test lighteye.whether normal induction.
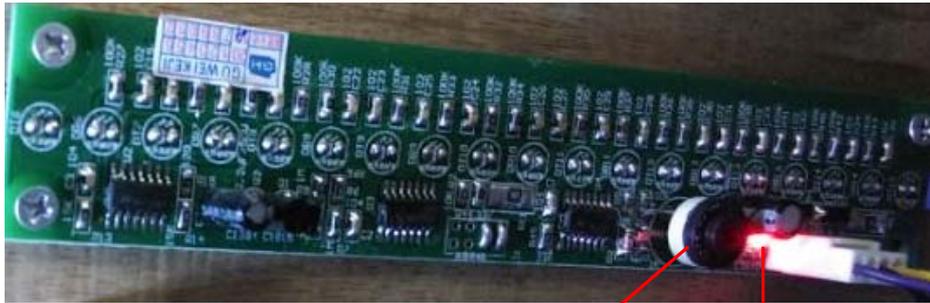
VR Adjust：

Clockwise→Reduce the emission current and sensitivity

Anticlockwise→Increase the emission current and sensitivity
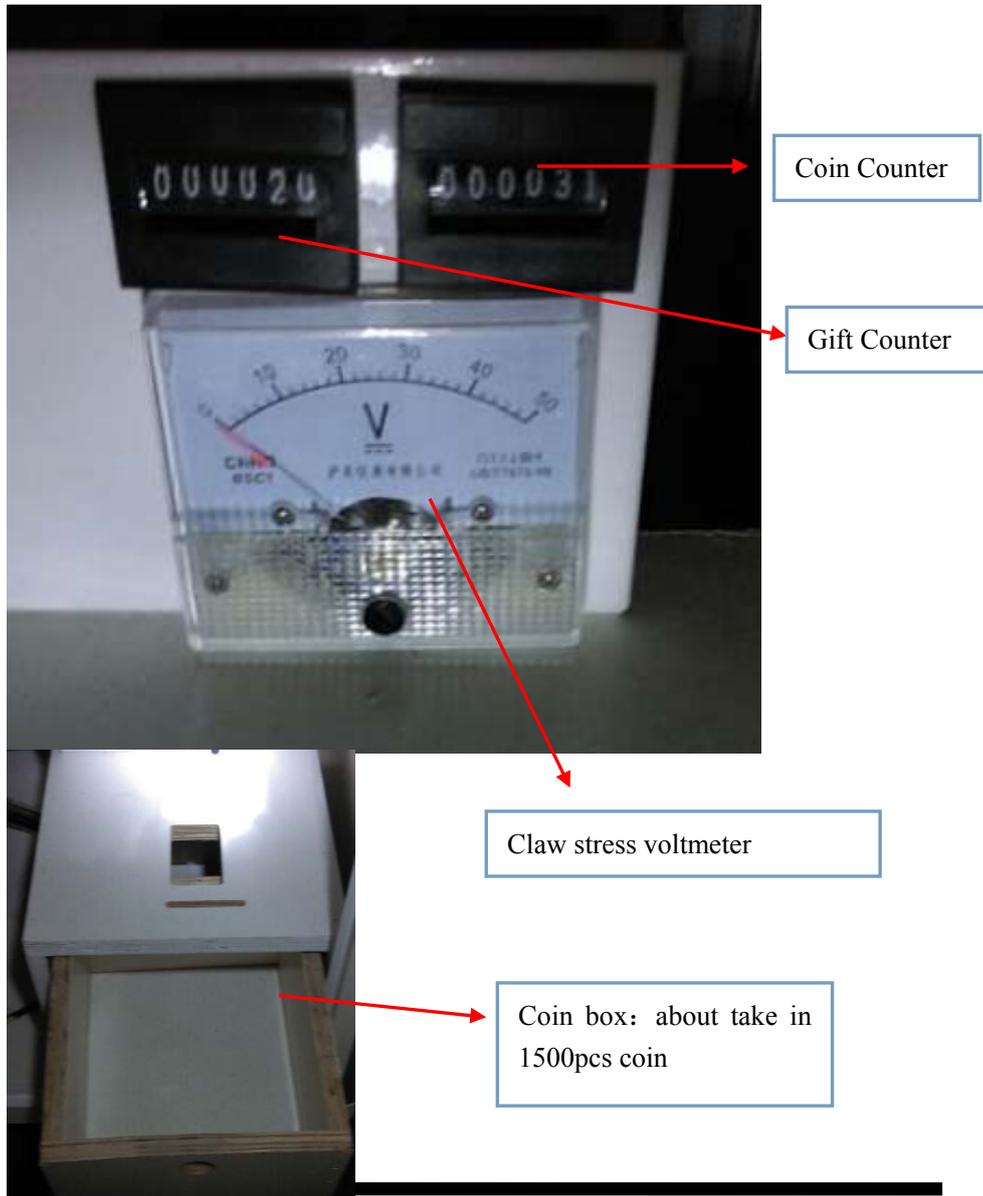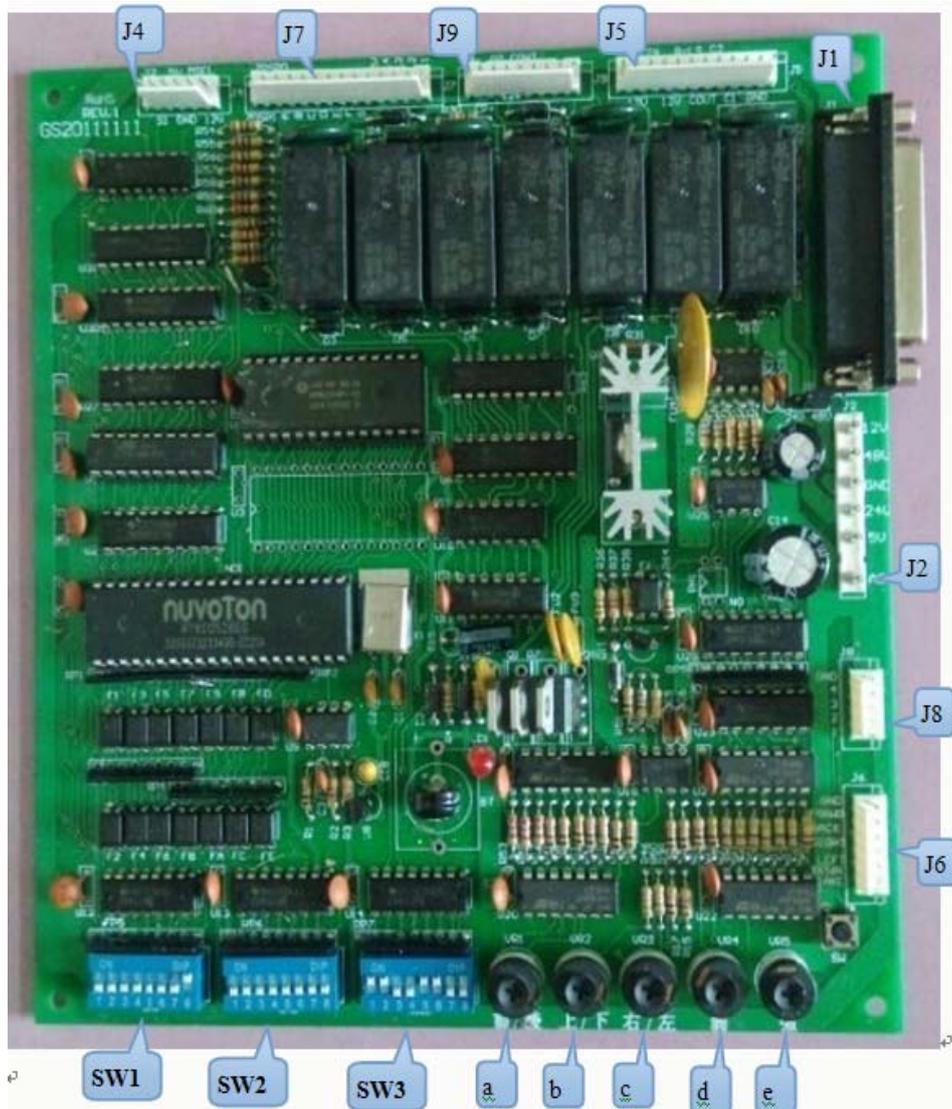
Indicator light

Voice board：

About machine counter

Adjust voice button

Counter and Voltmeter：

Coin Counter

Gift Counter

Claw stress voltmeter

Coin box：about take in 1500pcs coin

About the machine mainboard

Interface determined		
No	Code No	Function
1	J1	Connect the crown
2	J2	Connect the power
3	J4	Connet voice board
4	J5	**Connetcoin,code table**
5	J6	**Connet rocker,Start button**
6	J7	digitzer
7	J8	Connet balancer
8	J9	Connet voltmeter

a.F/B: adjust front and back motor speed,clockwise increased and counterclockwise reduce

b.U/D: adjust up and down motor speed,clockwise increased and counterclockwise reduce.

c:L/R:adjust left and right motor speed. clockwise increased and counterclockwise reduce.

d:weak force,adjust claw week stress, clockwise increased and counterclockwise reduce

e:powerful:adjust claw strong stress, clockwise increased and counterclockwise reduce

Character：

1. Many kinds of business model setting.

2. In game, the game time have inverse function.

3. Claw stress can set voltage

4. Crown Clock motor speed can adjust by manual

5. Display can show the coin numbers.

How to enter into function feature

   1. In shutdown state,pulled up SW3,8 feet up(off),

2.Finish Setting,Close machine. Pulled down SW3 8 feet (off),Choice the sell mode by turn on machine again.

About machine mainboard

Machine internal wiring diagram
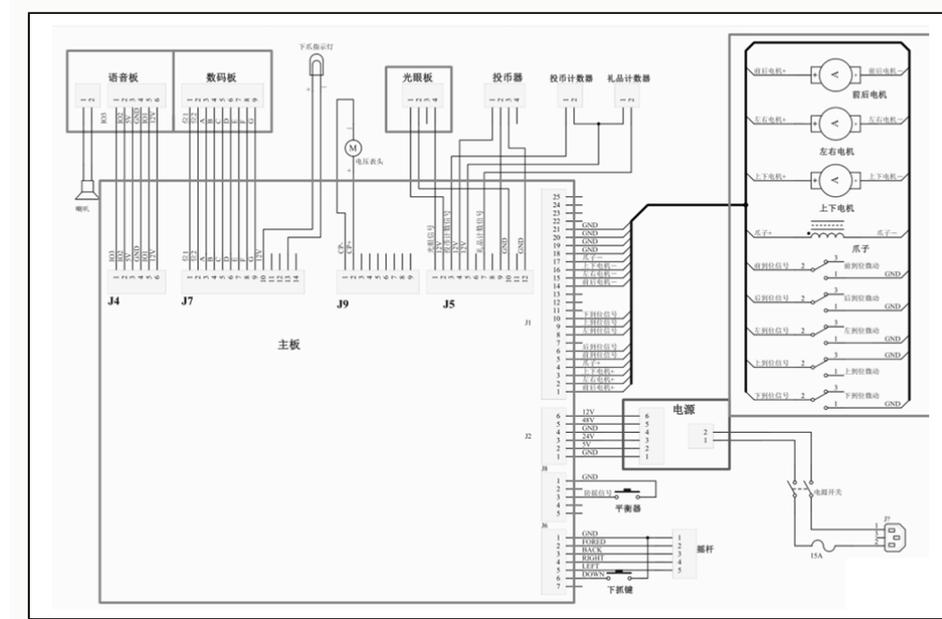
J1	25feet	connect crown clock
1：front and back motor anode	2：left/right motor anode	3：up/down motor anode
4：Claw anode	5：front place signal	6：back place signal
7：	8：left place signal	9：up place signal
10：down place signal	11：	12：
13:	14:front and back motor cathode	15:left/right motor cathode

16:up/down motor	17:Claw cathode	18:GND
19: GND	20: GND	21:
22:	23:	24:
25:		

About machine mainboard

J2 6feet connect power		
1:GND	2:5V	3:24V
4:GND	5：48V	6:12V

J8 5feet connect equalizer		
1：GND	2:	3:Rolling signal
4：	5：	

J6 7feet connect rocker,button		
1：GND	2:FORED	3:BACK
4:RIGHT	5:LEFT	6:DOWN
7:down claw button		

J5 12feet connect coin device and stopwatch		
1：lighteye signal	2：12V	3：coin count signal
4：12V	5:12V	6:
7:gift count signal	8：	9：

10：GND	11:	12:GND

About machine mainboard

J9　　9feet　　connect voltmeter		
1：CP-	2:CP+	3：
4：	5：	6：
7：	8：	9：

J7　　14feet　　connect digitizer		
1：place1	2：place2	3：A
4:B	5:C	6:D
7:E	8:F	9:G
10:12V	11:	12:
13:	14:	

J4　6feet　connect voiceboard		
1：IO3	2:IO2	3:5V
4:GND	5:IO1	6:12V

How to Count Winning probability

Chance=10 times(SW2)divide 【5 times(SW1)+10 times(SW2)】 equal to two thirds winning probability ,(only mode1 and mode3)

SW1   1. 2. 3. 4. 5 . 6. 7. 8feet SW2 5.6.7.8   O：ON   X：OFF

SW1 出奖率	1	2	3	4	5	6	7	8	SW2 出奖率	5	6	7	8
5.00%	O	X	X	O	X	X	O	X	加拨	X	X	X	X
5.48%	X	O	X	X	X	X	O	X	加拨	X	O	X	X
6.06%	O	O	X	O	O	O	X	X	加拨	X	O	X	X
6.45%	O	O	O	X	O	O	X	X	加拨	X	O	X	X
7.02%	X	O	X	X	O	O	X	X	加拨	X	O	X	X
7.41%	O	O	O	O	X	O	X	X	加拨	X	O	X	X
8.00%	O	O	X	O	X	O	X	X	加拨	X	O	X	X
8.51%	X	X	X	O	X	O	X	X	加拨	X	O	X	X
9.09%	O	X	O	X	X	O	X	X	加拨	X	O	X	X
9.52%	O	O	X	X	X	O	X	X	加拨	X	O	X	X
10.00%	O	X	X	X	O	X	X	X	加拨	X	O	X	X

How to Count Winning probability

Pull switch SW2   5.6.7 脚   O:ON   X：OFF

SW2 功能	1	2	3	4
投1币1玩	X	X		
投2币1玩	O	X		
投3币1玩	X	O		
投4币1玩	O	O		
游戏时间 15秒			X	X
30秒			O	X
45秒			X	O
60秒			O	O

SW2 is fixed value,covenient adjustment,deprecated set by oneself

Probability count:10 times(SW2)divide 【5 times(SW1)+10 times(SW2 5.6.7.8 feet)】

Same two thirds winning probability

For example:a:SW1 is 1, SW2 is 2

Probability" =（10*1/（5*1+10*2））*2/3=53%.

Digital plate show the game and game times

Factory default: ：SW1 1 .ON 2.3.4 OFF 5 ONN 6.7.8 OFF

SW2 1 . ON 2.3.4.5 OFF   6.ON 7.8 OFF

Factory set probability:10% ,2 coins 1 play time,

Play time:15 seconds

How to count winning probability

O：ON　X：OFF　pull switch SW3 1.2.3.4　　feet

SW3 秒数	1	2	3	4	5	6	7	8	说明
双人机台	X								左边机台
（左右机台）									（平常机台在X位置）
	O								右边机台
按钮机台		X							按钮机台
摇杆机台		O							摇杆机台
置物口放置位置			X						放物与置物口相同
									（前方置物）
			O						放物与置物口不同
									（后方置物）
爪力调整模式				O					营业中不使用
									应拔至OFF
下勾钮与取物钮 是否同一键					X				下勾钮与取物钮同一键
					O				下勾钮与取物钮不同键
游戏模式设定						O	O		选物贩卖（限时）
						O	X		营业贩 mode3
功能设定								X	营业模试
								O	设定模试

'1'　OFF　suitable signal and double player on the left machine(recommend ON double player on the right machine

'2'　OFF use button control direction
ON use rocker control direction(recommend)

'3' OFF point R.mouth is different
N,point and R mouth is same

'4'　OFF operating costs
4.Only technical staff(debug strong and weak force)

5.when use the rocker,(SW3-2 on)the bottom hook is same button(recommended)

'6-7'　Game mode

'8'　Set mode switch

Factory: ※　1.2 ON　3.4　OFF　5.6　ON　7.8　OFF

※ Note:all setting ensure the power is turn off, can be set.

Fault description

Fault code1:when the crown clock can't complete full action,the display will show code 01

Fault code	Problem	Examine and solve way
01	Can't reset	1.Reboot power,if still can't reset,please check the back and left place final motion is normal or not, use hand press,put,listen whether have"gege"sound, check the wire whether loss. 2.check crown clock wire butt joint,whether loss and imperfect connect. 3.Mainboard Fault
	The claw can't work,when fetch gift	1.weak claw set too law,please depends on item size and weight adjust claw stress voltage 2.SW3 the four place,use on instead of off
	Claw automatic closed with open power	1.Maybe the claw coil have sort circuit,plase change。 2.Mothboard dip switches, SW-3 four place use off instead of on
	Rocker can't work,to front and back	1.when use rocker,please check,micro motion whether have fault and the wire loss or not. 2.Check the motherboard,J1 plug to PIN wire is good or not。 3.crown clock front palce fretting,back place whether has fault. 4.front rear motor has fault and loss,or grear can't bite 5.Check rocker J6 plug PIN whether loose and not plug。 6.crown clock wire and machine wire whether normal。

		1.rocker front,back fretting whether fault and loose
	Rocker can't to front and back	2.check motherboard the J1 plug to PIN。
		3.crown clock left fretting whether fault or jam。
		4.front and back motor is fault,or can't bite。
		5.check rocke whether the J1 plug to PIN 。
		6.whether the crown wire and machine wire is connect normal 。

Fault description

Fault Code	problem	Examine and solve way
01	Press the claw fall,but can't ,until the game over that can fall.	1.check the "fall claw"is normal or not。 2."fall claw"button wire are loose or fall off。 3.check the motherboard,J1 plug PIN wire is good or not.
	Fall claw normal,But can't fall。	1.check the up/down motor line wether fall off。 2.check the motor wether fault and the gear is bite。 3.check the wround wire is nomal。 4.crown wire to the motherboard wire is ok? 5.motherboard fault
	When press fall claw,but can't ,or fall a little,then homing	1.check the reel is entangled。 2.under freeting is easy to touch or fault。
	Press hooks,claw can't touch the items,and close line to catch	1.check the around wire is short? 2.check the around wire was wrapped。 3.under fretting is easy to touch or fault。
	Fetch gift,but export hold	Check the up fretting is fault or wires are off.

	Fetch the gift, claw doesn't rise, crown is homing.	1.check the up fretting whether has touch phenomenon。 2.up fretting is fault or wire fall off。 3.motherboard fault。
	Fetch the gift, the claw and crown don't move	1.check the down motor is fault? 2.up fretting is fault or wire fall off。 3.motherboard fault。
05	Press motherboard,can't set.	Close power,check the motherboard setting. SW3
06	Report balancer action	Check the machine is level,the balancer is damaged,balance wire is correct?

Imprint

1. **Business edition**:how many coins you have cost,how many times you can play.

2. **Choice sell(limited time),same as business edition,if not catch gift, will show the times,when the times greater than or equel to (Currency is greater than or equel to)gift sell price. You can play till your catch gift.(constraint the strong claw)if display show the usage count.in the limited time,you don't put coin, then clear the number of not clip.**

Note：

Strong Claw stress: the claw stress in one second

Weak claw stress: claw rise to vertex move to export stress.

Claw stress adjustment mode:Factory setting, Strong 30,weak 10.

1、When the out off the gift, the weak force became strong value,Must be will out gift。

2、Adjustment the weak force,when the gift is rising then fall down, keep the heavy and soft gift will fall naturally.

Adjust the strength,pitch a few coin(play time at least 5),press fall claw adjust strength potentionmeter claw, fall the claw is your setting vaule with the highest voltage.the closed claw minimum voltage is by your desired value.

Note:Non-professional, please don't mess regulation

Other Specification

（1）Rated voltage；220V-50Hz,power supply range210V-230V-50Hz

（2）Power consumption:200-250 Watts(vary with voice output size)

（3）Maximum current consumption of 1.5 amps；

（4）Coin bos capacity about；1500 coins

（5）Machine Size:Height(1800mm)*length(560mm)*thick(500mm)

（6）Machine packing size(2units)

Height(1900mm)*length(1180mm)*thick(1430mm)

（7）

Disclaimer

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